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1 Written on the body: biometrics and identity   ■

Irma van der Ploeg
March 1999 **ACM SIGCAS Computers and Society**, Volume 29 Issue 1
Publisher: ACM Press
Full text available: 🅰 pdf(895.43 KB)   Additional Information: full citation, index terms

2 Computer security: A conceptual framework for testing biometric algorithms within   ■
operating systems' authentication
Arslan Brömme, Marcel Kronberg, Oliver Ellenbeck, Oliver Kasch
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: 🅰 pdf(675.28 KB)   Additional Information: full citation, abstract, references, index terms

> This paper presents a conceptual framework for testing the implementation of biometric
> algorithms within Unix and Windows NT/2000 operating systems' login authentication. To
> support the analysis and evaluation of biometric algorithms, a data logging module will be
> used, enabling the collection of quantitative data, e.g. timestamps, biometric raw data,
> (pre)processed data, and return codes from each run of a biometric authentication. It is
> shown how biometric algorithms and a data logging module ...
>
> **Keywords**: biometric authentication, evaluation, operating system, robustness, testing
> biometric algorithms

3 Report of the national workshop on internet voting: issues and research agenda   ■
C. D. Mote
May 2002 **Proceedings of the 2002 annual national conference on Digital
government research dg.o '02**
Publisher: Digital Government Research Center
Full text available: 🅰 pdf(539.99 KB)   Additional Information: full citation

4 Report of the national workshop on internet voting: issues and research agenda   ■
C. D. Mote

May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00**
Publisher: Digital Government Research Center
Full text available: 📄 pdf(539.99 KB)   Additional Information: full citation, abstract

As use of the Internet in commerce, education and personal communication has become common, the question of Internet voting in local and national elections naturally arises. In addition to adding convenience and precision, some believe that Internet voting may reverse the historical and downward trend of voter turnout in the United States. For these reasons President Clinton issued a memorandum in December 1999 requesting that the National Science Foundation examine the feasibility of online (In ...

5 Voice biometrics
Judith A. Markowitz
September 2000 **Communications of the ACM**, Volume 43 Issue 9
Publisher: ACM Press
Full text available: 📄 pdf(240.49 KB)
📄 html(36.88 KB)   Additional Information: full citation, references, citings, index terms

6 Invited Discussions: Interacting with identification technology: can it make us more secure?
Jean Scholtz, Jeff Johnson, Ben Shneiderman, Peter Hope-Tindall, Marcus Gosling, Jonathon Phillips, Alan Wexelblat
April 2002 **CHI '02 extended abstracts on Human factors in computing systems**
Publisher: ACM Press
Full text available: 📄 pdf(142.76 KB)   Additional Information: full citation

Keywords: biometrics, civil liberties, face recognition, national id card, privacy, security

7 Secure data hiding in wavelet compressed fingerprint images
Nalini K. Ratha, Jonathan H. Connell, Ruud M. Bolle
November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**
Publisher: ACM Press
Full text available: 📄 pdf(688.05 KB)   Additional Information: full citation, abstract, references, citings, index terms

With the rapid growth of the Internet, electronic commerce revenue now amounts to several billion US dollars. To avoid fraud and misuse, buyers and sellers desire more secure methods of authentication than today's userid and password combinations. Automated biometrics technology in general, and fingerprints in particular, provide an accurate and reliable authentication method. However, fingerprint-based authentication requires accessing fingerprint images scanned remotely at the user's workst ...

Keywords: WSQ compression, authentication, biometrics, data hiding, fingerprints, watermarking

8 Identification and authentication when users have multiple accounts
W. R. Shockley
August 1993 **Proceedings on the 1992-1993 workshop on New security paradigms**
Publisher: ACM Press

Full text available: 📄 pdf(788.71 KB)   Additional Information: <u>full citation</u>, <u>references</u>

9 <u>Electronic commerce universal access device-the knowledge-acquiring layered infrastructure (KALI) project</u>
Theodore Chiasson, Carrie Gates
September 2000 **Crossroads**, Volume 7 Issue 1
Publisher: ACM Press
Full text available: 📄 <u>html(35.92 KB)</u>   Additional Information: <u>full citation</u>, <u>index terms</u>

10 <u>Social issues: Identification technologies: can they make us more secure?</u>
Jean Scholtz, Jeff Johnson
July 2002 **ACM SIGCHI Bulletin - a supplement to *interactions***, Volume 2002
Publisher: ACM Press
Full text available: 📄 <u>pdf(241.57 KB)</u>   Additional Information: <u>full citation</u>, <u>index terms</u>

11 <u>Viewpoint: ACM's computing professionals face new challenges</u>
Ben Shneiderman
February 2002 **Communications of the ACM**, Volume 45 Issue 2
Publisher: ACM Press
Full text available: 📄 <u>pdf(79.02 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>
📄 <u>html(19.92 KB)</u>

Technologists can make a difference on so many critical fronts.

12 <u>Person-matching by electronic methods</u>
William Phillips, Anita K. Bahn, Mabel Miyasaki
July 1962 **Communications of the ACM**, Volume 5 Issue 7
Publisher: ACM Press
Full text available: 📄 <u>pdf(529.45 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Record linkage in the updating of files is accomplished in many establishments through the use of a preassigned number, such as payroll number, customer number, or social security number. In vital and health records, however, a unique number is generally not preassigned to an individual for purposes of reporting services received to the health department. In order to determine whether different physician reports refer to the same individual, name and other identification must be compared. T ...

13 <u>National id card: the next generation: The US/Mexico border crossing card (BCC): a case study in biometric, machine-readable id</u>
Andrew Schulman
April 2002 **Proceedings of the 12th annual conference on Computers, freedom and privacy**
Publisher: ACM Press
Full text available: 📄 <u>htm(187.31 KB)</u>   Additional Information: <u>full citation</u>, <u>index terms</u>

14 <u>White paper on integrated broadband environment environment for personalized TV experience (IBEX)-preliminary edition</u>

Yoshihisa Gonno, Fumihiko Nishio, Tomohiro Tsunoda, Yasuaki Yamagishi
November 2000 **Proceedings of the 2000 ACM workshops on Multimedia MULTIMEDIA '00**
Publisher: ACM Press

Full text available: 📄 pdf(426.23 KB)   Additional Information: full citation, abstract, references, citings, index terms

This document intends to describe a system overview of "Integrated Broadband Environment for Personalized TV Experience (IBEX)". The IBEX features three major goals: to release audience from time constraint scheduled by broadcasters, to provide seamless and adaptive access between TV and the Web, and finally, to securely personalize TV experience for individual audience. In order to achieve open framework, these viewpoints must be properly developed in conjunction with well-organi ...

Keywords: TV-anytime, contents, database, description, identification, metadata, schema, structure

15 P6: Document-based inter-organizational information exchange

Reinhard Riedl
October 2001 **Proceedings of the 19th annual international conference on Computer documentation**
Publisher: ACM Press

Full text available: 📄 pdf(217.62 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we present tour research work on document services for interstate e-government carried out in the FASME project. First, we depict the background for our research and we describe its basic challenges. Then we discuss the required services out of the perspective of inter-organizational document services and documentation issues. From the evaluations of our prototypical implementation with user groups, we may conclude that interstate e-government services are feasible and that life w ...

Keywords: e-government, inter-organizational work-flows

16 The Modelling of Embedded Systems Using HASoC

M. Edwards, P. Green
March 2002 **Proceedings of the conference on Design, automation and test in Europe**
Publisher: IEEE Computer Society

Full text available: 📄 pdf(195.94 KB)
📄 Publisher Site   Additional Information: full citation, abstract, citings

We present a design method (HASoC) for the lifecyclemodelling of embedded systems that are targetedprimarily, but not necessarily, at SoC implementations.The object-oriented development technique is based onour experiences of using an existing modelling technique(MOOSE) and supports a lifecycle that explicitlyseparates the behaviour of a system from its hardwareand software implementation technologies. The designprocess, which uses a UML-RT-based notation, beginswith the incremental development ...

17 The development of destination-specific biometric authentication

Andrew R. Mark
April 2000 **Proceedings of the tenth conference on Computers, freedom and privacy: challenging the assumptions**
Publisher: ACM Press

Full text available: 📄 pdf(44.03 KB)   Additional Information: full citation, index terms

18 A fuzzy commitment scheme

Ari Juels, Martin Wattenberg

November 1999 **Proceedings of the 6th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: pdf(966.08 KB)   Additional Information: full citation, abstract, references, citings, index terms

We combine well-known techniques from the areas of error-correcting codes and cryptography to achieve a new type of cryptographic primitive that we refer to as a fuzzy commitment scheme. Like a conventional cryptographic commitment scheme, our fuzzy commitment scheme is both concealing and binding: it is infeasible for an attacker to learn the committed value, and also for the committer to decommit a value in more than one way. In a convent ...

19 Smart card evolution

Katherine M. Shelfer, J. Drew Procaccino

July 2002 **Communications of the ACM**, Volume 45 Issue 7

Publisher: ACM Press

Full text available: pdf(110.58 KB)   Additional Information: full citation, abstract, references, citings, index terms
html(31.22 KB)

Smart cards and their related technologies are an emerging component of electronic commerce worldwide. In some countries, they are revolutionizing aspects of commerce, healthcare, and recreation.

20 Analysis methodology II: Simulation optimization: multi-response simulation optimization using stochastic genetic search within a goal programming framework

Felipe F. Baesler, José A. Sepúlveda

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available: pdf(255.04 KB)   Additional Information: full citation, abstract, references, citings

This study presents a new approach to solve multi-response simulation optimization problems. This approach integrates a simulation model with a genetic algorithm heuristic and a goal programming model. The genetic algorithm technique offers a very flexible and reliable tool able to search for a solution within a global context. This method was modified to perform the search considering the mean and the variance of the responses. In this way, the search is performed stochastically, and not determ ...

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